

# Converting Colors

XYZ(12.3270, 15.4543, 32.4703)

Have a look what the booklet for  
XYZ(12.3270, 15.4543, 32.4703)  
contains.

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# Color

**XYZ(12.3466, 15.4936,  
32.4768)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	007799
RGB	0, 119, 153
RGB Percent	0%, 47%, 60%
CMY	0.9999, 0.5333, 0.4000
CMYK	1.00, 0.22, 0.00, 0.40
HSL	193°, 100%, 30%
HSV	193°, 100%, 60%
XYZ	12.3466, 15.4936, 32.4768
YIQ	87.2950, -81.8380, -14.6540

# Conversions

## Conversions Part 2

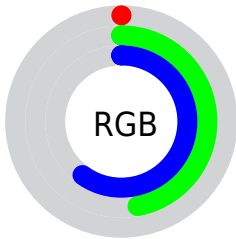
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 67, 153
Decimal	30617
CIELab	46.30, -15.32, -26.21
CIELCh	46, 30.360, 239.689
Yxy	15.4936, 0.2047, 0.2569
Android (android.graphics.Color)	4278220697 (0xFF007799)
YUV	87.2950, 32.3926, -76.5577
Hunter-Lab	39.3619, -12.8935, -21.3658

# Details

The XYZ color **12.3466, 15.4936, 32.4768** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **13.7098, 7.9177, 0.8063**, and the grayscale version is **9.0693, 9.5416, 10.3908**.

A 20% lighter version of the original color is **29.6631, 35.6092, 64.3413**, and **4.6515, 5.4658, 13.3802** is the 20% darker color. If you saturate the color by 10%, you get **12.3462, 15.4928, 32.4770**, and if you desaturate by 10%, it is **12.9611, 16.4222, 32.6240**.

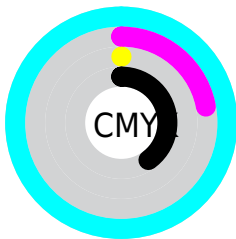
# Distribution



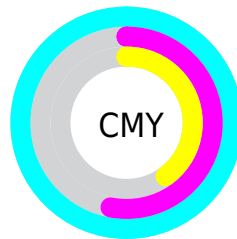
- Red (0%)
- Green (47%)
- Blue (60%)



- Red (0%)
- Yellow (26%)
- Blue (60%)



- Cyan (100%)
- Magenta (22%)
- Yellow (0%)
- Black (40%)



- Cyan (100%)
- Magenta (53%)
- Yellow (40%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 12.3466, 15.4936, 32.4768 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 12.3466, 15.4936, 32.4768 by changing the saturation by 10% instead.



12.3466, 15.4936,  
32.4768

12.3466, 15.4936,  
32.4768

200.4100,  
226.3347, 327.8449

7.0541, 9.1665,  
21.4581

29.7362, 35.7168,  
64.6644

3.5426, 4.8500,  
13.2648

42.5640, 50.3817,  
86.6704

1.4468, 2.1595,  
7.4783

58.6343, 68.5947,  
113.1759

0.2892, 0.6978,  
3.6800

78.3124, 90.7402,  
144.5994

0.0000, 0.0000,  
1.4515

101.9636,  
117.2026, 181.3596

0.0000, 0.0000,  
0.1814

129.9534,

0.0000, 0.0000,

148.3662, 223.8748

0.0000

162.6471,  
184.6154, 272.5638

■ 12.3466, 15.4936,  
32.4768

■ 12.3466, 15.4936,  
32.4768

■ 12.3462, 15.4928,  
32.4770

■ 12.9611, 16.4222,  
32.6240

■ 13.7392, 17.4567,  
32.7826

■ 14.7501, 18.6330,  
32.9564

■ 16.0214, 19.9658,  
33.1466

■ 17.5768, 21.4673,  
33.3545

■ 19.4371, 23.1487,  
33.5810

■ 21.6212, 25.0197,  
33.8270

■ 24.1465, 27.0895,  
34.0934

■ 27.0289, 29.3666,  
34.3810

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



10.7995, 15.4936, 24.9928



12.3466, 15.4936, 32.4768



14.6992, 15.4936, 35.5973

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



12.3466, 15.4936, 32.4768



20.3066, 15.4936, 16.9475



12.3883, 15.4936, 7.2450

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



12.3466, 15.4936, 32.4768



13.7098, 7.9177, 0.8063

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



14.7533, 15.4936, 6.2279



12.3466, 15.4936, 32.4768



19.5052, 15.4936, 10.7306

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



12.3466, 15.4936, 32.4768



19.4726, 15.4936, 25.1677



17.3934, 15.4936, 7.2892



10.8215, 15.4936, 10.6316



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



12.3466, 15.4936, 32.4768



16.4739, 15.4936, 34.2395



17.3934, 15.4936, 7.2892



13.1067, 15.4936, 6.6681

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



12.3471, 15.4941, 32.4772



38.4659, 44.5933, 60.5520



11.6685, 22.8936, 5.2551



8.1486, 9.5545, 13.3322



72.9764, 76.7769, 83.6100



11.9732, 12.5967, 13.7178



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



12.3471, 15.4941, 32.4772



21.9678, 27.4601, 58.1145



6.6274, 4.0546, 30.5706



6.2681, 6.7936, 7.9099



10.2292, 12.8551, 26.8499



0.1787, 0.2437, 0.4100



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



16.4671, 8.1048, 18.1498



29.4175, 14.4848, 32.1215



18.6761, 17.8504, 2.4618



6.4024, 6.3001, 7.4993



13.6220, 6.7030, 15.0664



0.2166, 0.1054, 0.2937



# Previews

## White Background



This preview shows how the XYZ color 12.3466, 15.4936, 32.4768 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 12.3466, 15.4936, 32.4768 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

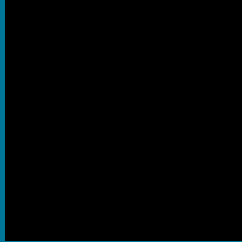
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 12.3466, 15.4936, 32.4768**

## **Background**



This preview shows how black text looks on a background with the XYZ color 12.3466, 15.4936, 32.4768.



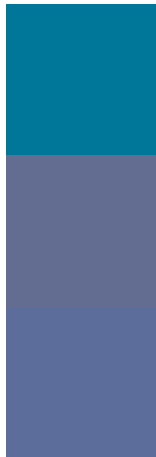
This preview shows how white text looks on a background with the XYZ color 12.3466, 15.4936,



# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

12.3466, 15.4936, 32.4768

### Protanopia

15.6190, 15.4221, 28.9416

### Deuteranopia

15.6926, 15.3670, 33.1494



## Tritanopia

11.0563, 15.5578, 23.8930

# Trichromacy



## Original Color

12.3466, 15.4936, 32.4768

## Protanomaly

13.1894, 14.7832, 30.1753

## Deuteranomaly

13.4305, 14.8512, 32.7306

## Tritanomaly

11.4976, 15.5388, 26.8194

# Monochromacy



## Original Color

12.3466, 15.4936, 32.4768

## Achromatopsia

9.0590, 9.5307, 10.3790

## Achromatomaly

8.9066, 10.8836, 16.6702

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 12.3466, 15.4936, 32.4768 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(0, 119, 153)` looks like.

```
.text, #text, p{  
    color:rgb(0, 119, 153)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(0, 119, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 119, 153) }
```

## Border

The CSS property to change the border of an element to XYZ 12.3466, 15.4936, 32.4768 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(0, 119, 153) }
```



If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(0, 119, 153) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(0, 119, 153)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 119, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 119, 153);  
box-shadow:4px 4px 4px 4px rgb(0, 119,  
153) }
```

# Background

The CSS property to change the background color of an element to XYZ 12.3466, 15.4936, 32.4768 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 119, 153) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(0, 119,  
153) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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